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**Queensland
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Main Roads

ENGINEERING BOREHOLE

FOR GEOTECHNICAL TERMS AND
SYMBOLS REFER FORM F:GEOT 017/3-2005

BOREHOLE No BH25

SHEET 1 of 2

REFERENCE No H9728

PROJECT IPSWICH MOTORWAY / LOGAN MOTORWAY GEOTECHNICAL INVESTIGATION

LOCATION Retaining Wall 5, Approximate Chainage 686m, 15m left of control MC32. COORDINATES 29845.1 E; 147275.8 N

PROJECT No FG5404 SURFACE R.L. 27.40 DATE STARTED 02/09/05 DATUM Ipswich Motorway

JOB No 148/17A/57 DATUM AHD DATE COMPLETED 02/09/05 DRILLER Drillsure

DEPTH (m)	R.L. (m)	ALGER CASING WASH BORING CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	USC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0	27.40					GRAVELLY SAND (Residual) Grey, dense.	SW-GM					
1	26.40					SANDY CLAY (Residual) Grey with orange-brown iron stains, fine grained, low plasticity, moist. Very stiff. Possibly extremely weathered rock.	CL				6.8.8 N=16	SPT
2	24.90					CLAYEY SANDSTONE Grey with minor orange-brown iron stains. Fine - medium grained quartz within a clay matrix. Gritty or coarse grained in parts.	XW				13.18/110mm HB N>50	SPT
3	23.70					Generally massive structure. Defects mostly dip 10°, 20°, 50°, 70°. Defect surfaces are mostly PL, SR-R, C, occasionally with a thin ironstained clayey infill.	MW				Jt, 10°, PL, SR, C. Is(50)=0.58 MPa Is(50)=0.82 MPa Jt, 20°, PL, SR, C.	o x
4	22.80					Silmlilar to above.	HW-XW				Int. Jts, 50°, 70°, PL, SR, O, 20mm Cly XW infill.	
5							HW				Is(50)=0.09 MPa Is(50)=0.07 MPa	x o
6	21.30					Pale grey with yellow brown iron staining throughout. Fine - medium grained quartz in a slightly clayey matrix. Occasional interbands of mudstone and siltstone. Thin wispy carconaceous interlamination throughout. Bedding ~10°, occasionally 0° or 20°. Defects mostly dip 10°, 20°, 50°, 70° or 80°. Defect surfaces are mostly PL, SM-SR, C with brown iron stains or a thin ironstained clayey infill. Occasional XW clayey seams up to 40mm thick parallel to bedding.	MW				2 Jts, 30°, PL, SR, C. Is(50)=0.02 MPa Is(50)=0.04 MPa Very low strength pale grey clayey bands in parts. Is(50)=0.12 MPa Is(50)=0.12 MPa Is(50)=0.21 MPa Is(50)=0.26 MPa	x o o x x o
7												
8												
9												
10											Is(50)=0.77 MPa Is(50)=0.63 MPa	x o

REMARKS No groundwater reported during drilling. Hole set up as groundwater monitoring point. See Additional Descriptive

Coding sheet for abbreviations.

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BOREHOLE No BH25

SHEET 2 of 2

REFERENCE No H9728

PROJECT IPSWICH MOTORWAY / LOGAN MOTORWAY GEOTECHNICAL INVESTIGATION

LOCATION Retaining Wall 5, Approximate Chainage 686m, 15m left of control MC32. COORDINATES 29845.1 E; 147275.8 N

PROJECT No FG5404 SURFACE R.L. 27.40 DATE STARTED 02/09/05 DATUM Ipswich Motorway

JOB No 148/17A/57 DATUM AHD DATE COMPLETED 02/09/05 DRILLER Drillsure

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD () %	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	USC WEATHERING	INTACT STRENGTH					DEFECT SPACING (mm)			GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
								EH	VH	H	M	L	JL	EL	20			
10	17.40					Sandstone Cont'd. As before.	MW									Jts,60°,80°,PL,SR,O, 20mm XW infill Jt, 10°, PL, SM, 5-10mm CL infill Jt, 80°,PL-Un,SM-SR,C, thin CLy film Jt, 10°, PL, SM-SR, 3mm CL infill HW Jts, 10°, PL, SR, XW infill. Jt, 90°, Un, R, C, brown CL film XW CL film 40mm, Fest. Jt, 30°, PL, SR, T, 2mm CL infill Jt, 10°, PL, SM, BP shears, Fest		
11				100												XW seam, siliceous cobble 50mm size.		
12	15.60					SANDSTONE Similar to above.	MW-SW									Is(50)=0.64 MPa Jt, 80°, Un, SR, thin XW film. Is(50)=0.59 MPa	x o	
13																2 Jts, 20°, PL, SR, O, black oxide coat. Is(50)=0.65 MPa Jt,20°,PL,SR,broken Is(50)=0.87 MPa Jt, 80°, PL, SM, grey CL film.	x o	
14	14.12			100		Interbedded SANDSTONE, SILTSTONE and MUDSTONE Grey and dark grey. Fine grained, occasional carbonaceous interbands up to 0.1m thick. Bedding 0° - 10°. Defects mostly dip 10°, 50°, 70° or 80°. Defect surfaces are mostly PL, SM-SR, C often with a thin grey clayey coat or infill up to 2mm thick. Occasionally surfaces are UN and SR.	SW									Jt, 80°, PL, SM, C, grey CL film, numerous Int. 10° Jts. Is(50)=0.84 MPa Is(50)=0.83 MPa Jt, 70-80°, ST, SM, C, grey CL film. Carb. seam 10°, fractured.	x o	
15																Is(50)=0.60 MPa Is(50)=1.65 MPa Is(50)=0.27 MPa Jt, 50° in fractured Carb band, PL, SR, C, grey CL film. Is(50)=0.73 MPa	x o x o	
16	10.60			100												Is(50)=0.42 MPa Is(50)=0.49 MPa	x o	
17						Borehole terminated at 16.8m												
18																		
19																		
20																		

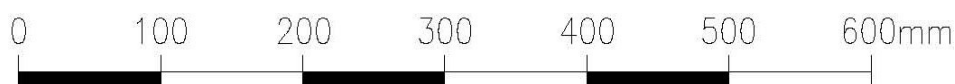
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Coding sheet for abbreviations.

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Project: **Ipswich Motorway / Logan Motorway Interchange**
 Borehole No: **BH25**
 Start Depth: 2.70m
 Finish Depth: 16.80m
 Project No: FG5404
 H No: 9728



SCALE 1:5

Project: **Ipswich Motorway / Logan Motorway Interchange**
Borehole No: **BH25**
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